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**(54) WATER-RESISTANT
CATALYST SUPPORT, ITS
MANUFACTURING
METHOD, WATER-
TREATABLE CATALYST
DEPOSITED ON SAID
SUPPORT AND WATER
TREATING METHOD USING
SAID CATALYST**

(57) Abstract:

PURPOSE: To permit a catalyst support to be used stably for a long period of time under severe water treating conditions, by forming a water-resistant and -treatable catalyst support containing the multiple oxide of titanium and zirconium having a crystal of ZrTiO₄.

CONSTITUTION: A titanium compound and a zirconium compound are heated at a temperature of 600-1000°C, preferably 660-900°C to form a water-resistant catalyst support

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containing a multiple oxide of titanium and zirconium having a bond structure of ZrTiO₄. At least one metallic, water-insoluble or indissoluble compound selected as a catalytically active component from the group consisting of Mn, Fe, Co, Ni, Ce, W, Cu, Ag, Au, Pt, Pd, Rh, Ru and Ir is deposited on this catalyst support to form a water-treatable catalyst. It is preferable for said catalyst support to have the composition of TiO₂ of 20-90 molar percent and ZrO₂ of to 10-80 molar percent.

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